VOLVO
Construction Equipment

Service Information

Document Title: **88830268 User Instruction**	Function Group: **080**	Information Type: **Service Information**	Date: **09-02-2024**
Profile: **A35F Volvo SN 320001-**			

88830268 User Instruction

Showing Selected Profile

Valid for serial numbers			
Model	**Production site**	**Serial number start**	**Serial number stop**
A35F Volvo SN 320001-			

88830268 Pump
The pump is adapted for draining and filling the oils used in the machine.

The pump must not be used for coolant or AdBlue®/DEF.

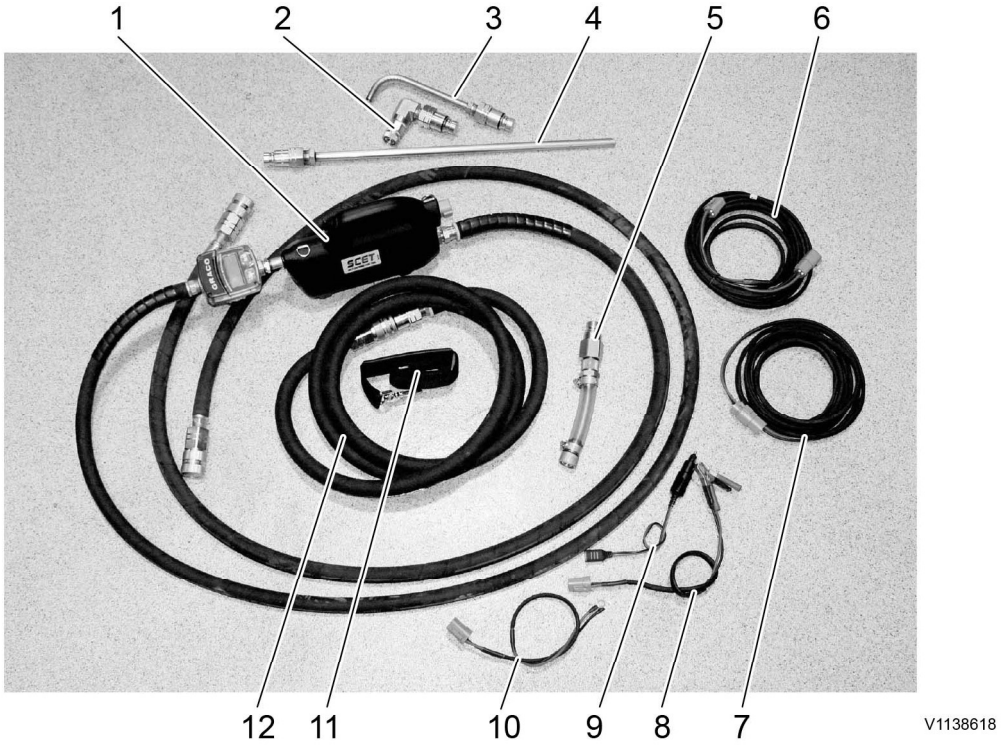

Figure 1

Content

1	Pump with flow meter and hose 2x2 metres (79 in)	7	Extension cable, 6 metres (236 in)
2	Adapter, angle 90°	8	Power adapter, battery
3	Fill pipe (axles)	9	Power adapter, 12 V/24V-outlet
4	Suction pipe	10	Power adapter, fuse box
5	Hose adapter for connecting to drain/fill nipple	11	Shoulder strap
6	Power cable, 5 metres (197 in)	12	Extension hose, 3 metres (118 in)

Figure 2

Connecting the pump to a power source can take place in various ways:
24 volt socket.
Connect the power adapter to the 24 V socket that is located under the instructor's seat or the instrument panel. The ignition switch must be in radio position (R) in order to activate the sockets.
On the A60 model, there is also one 24 volt socket in the engine compartment on the left-hand side.
12 volt socket
The pump operates at reduced capacity on 12 V, see right-hand upper cab wall.

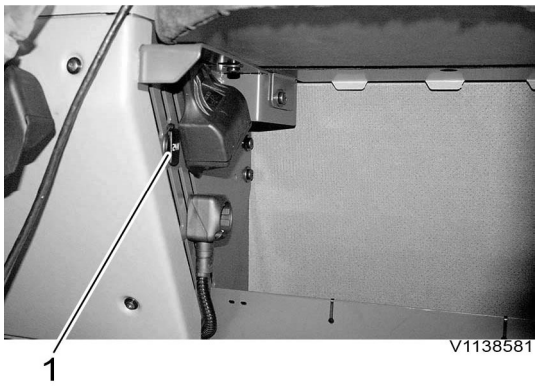

Figure 3

1. Power socket under instructor's seat, 24 volts

This is the sample of the manual if you need complete manual

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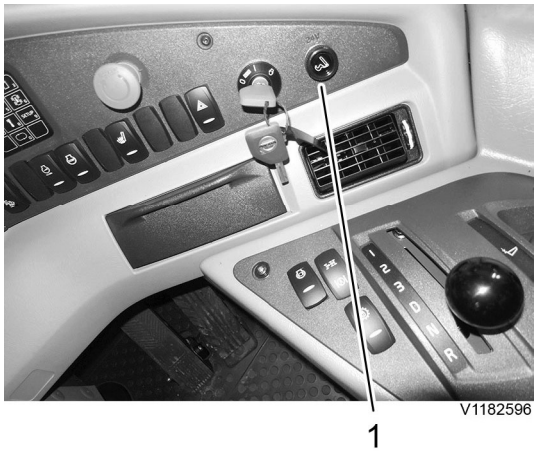

Figure 4

1. Power socket, instrument panel, 24 volts

Figure 5

1. Power socket, right-hand side of cab, 12 volts

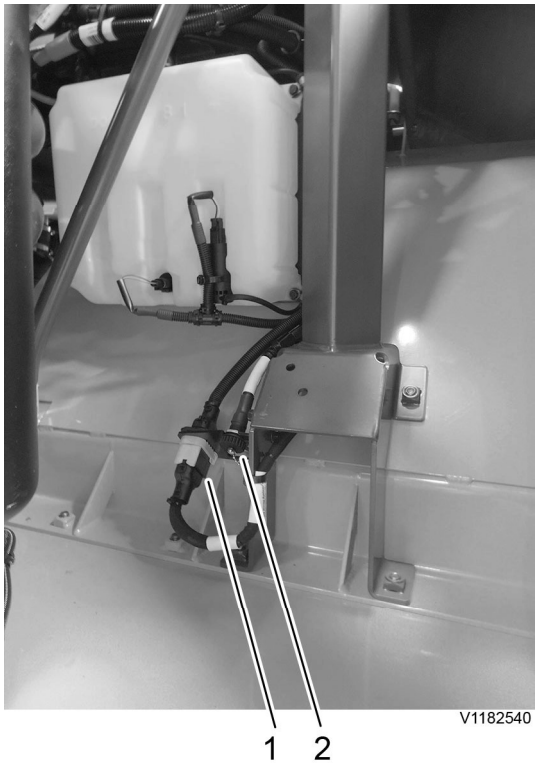

Figure 6

1. Connector, rear-view mirrors
2. Power socket, engine compartment (A60), 24 volts

Battery

Connect the power adapter to the battery on the machine. Red clamp to + (plus) and black clamp to - (minus).

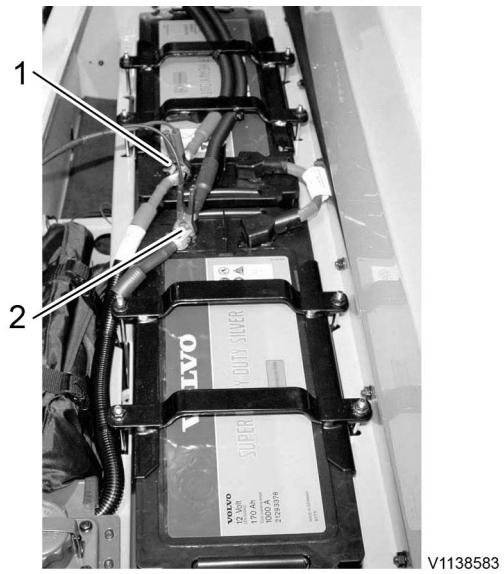

Figure 7

1. + (red)
2. – (black)

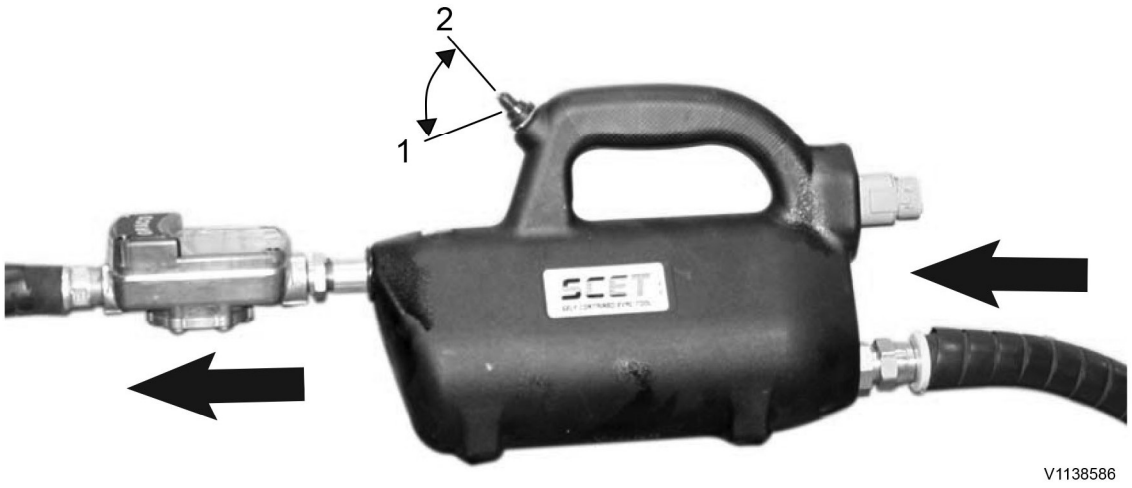

Figure 8
Flow direction,

1. Spring-loaded pump position ON
2. OFF

NOTE!
Always complete draining and filling in one operation to avoid pumping in the wrong oil type in the system.

Drain

1. Connect the pump to a suitable power source.
2. Connect the pump to the prescribed drain point with suitable adapter. The pump should always be connected so that the oil is pumped in the direction of the arrow, as shown in figure.
3. Hang up the pump in a suitable place for easier operation and reading of the flow meter.
4. Insert the drain hose in a suitable container.
5. Start the pump with the switch, hold it depressed in order to pump. The switch has two positions: Off and On (spring-loaded position).
6. Turn off the pump when the system is empty.

NOTE!
If the pump is not used for draining, then before filling it is important to make sure that the wrong oil type is not pumped into the system. This is done by rinsing the pump and its hoses with at least 2 litres (0.53 US gal) of the prescribed oil type.

Charging (Filling)

1. Connect the pump to the prescribed fill point with suitable adapter. The pump should always be connected so that the oil is pumped in the direction of the arrow, as shown in figure.
2. Insert the pump's suction hose with the suction pipe in a container with new oil.
3. Start the pump with the switch, hold it depressed in order to pump. The switch has two positions: Off and On (spring-loaded position).
4. Fill the indicated oil volume.

Document Title: **88830386 User instruction**	Function Group: **080**	Information Type: **Service Information**	Date: **09-02-2024**
Profile: **A35F Volvo SN 320001-**			

88830386 User instruction

Showing Selected Profile

Valid for serial numbers			
Model	**Production site**	**Serial number start**	**Serial number stop**
A35F Volvo SN 320001-			

88830386 Pump is adapted for venting the fuel system. With 88830386 Pump air in the fuel system is removed in a quick and effective way, and therefore it is advantageous to use it to replace manual air bleeding via the hand pump on the filter housing. The pump can be used when replacing fuel filter and other work in the fuel system where air bleeding is needed.

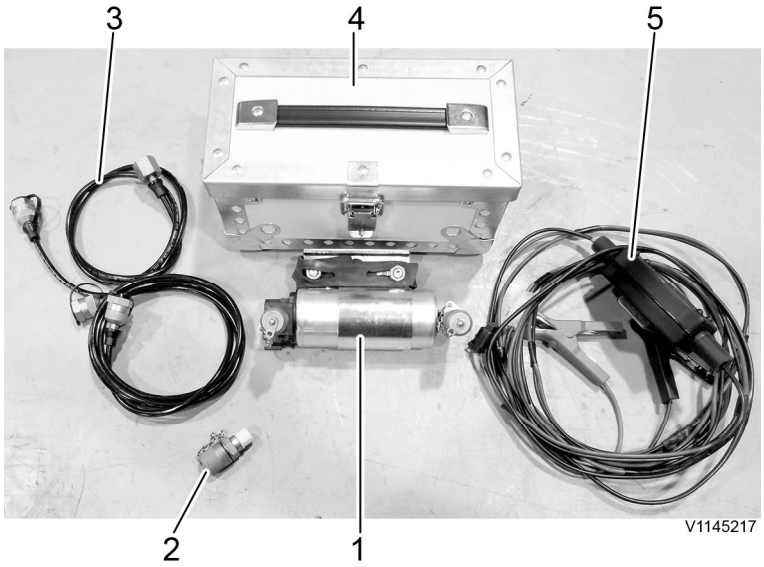

Figure 1
88830386Pump

1. Breather pump (priming pump)
2. 936442 Testing nipple, included in pump kit
3. 2 pcs. fuel hose 1 m (39 in)
4. Storage case
5. Battery cables with switch

Op nbr

1. Remove the breather nipple for the cylinder head's fuel channel and install 936442 Testing nipple supplied in the pump kit. See Fuel system, component location for position.

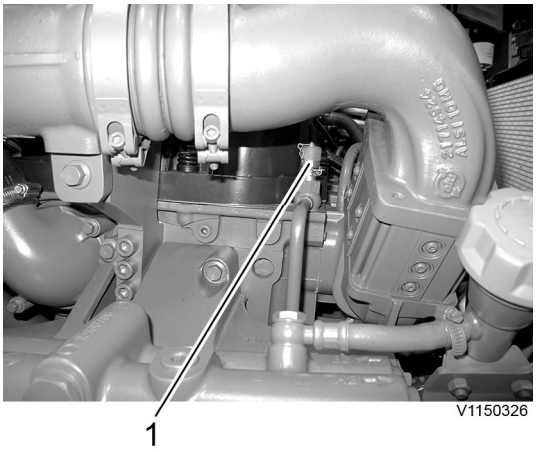

Figure 2
Example figure, shows A35G

1. 936442 Testing nipple, installed on fuel channel from cylinder head

2. Install the breather pump in a suitable location.

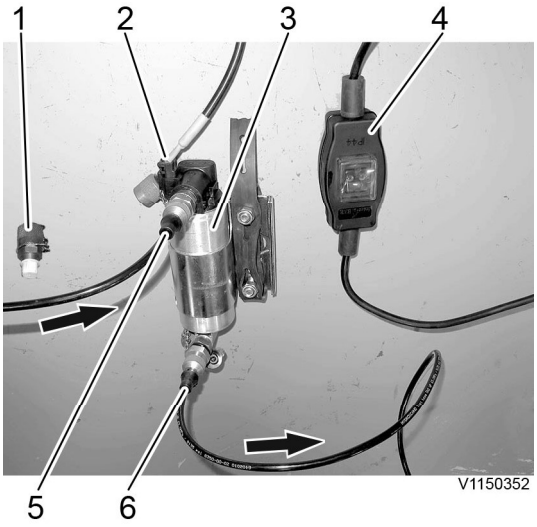

Figure 3
Connecting breather pump, general overview[T1]

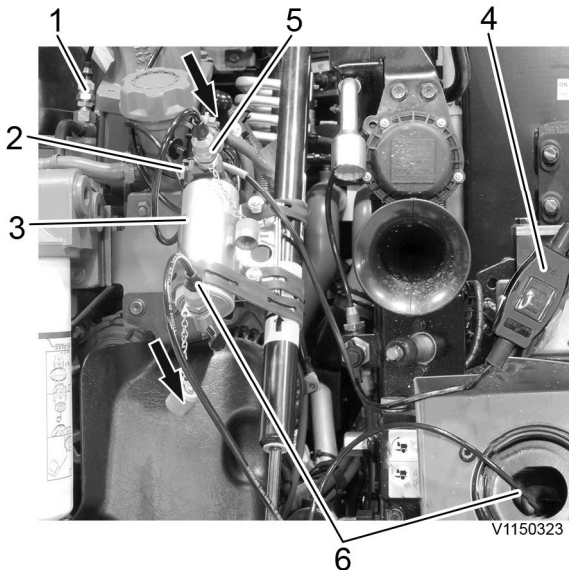

Figure 4
Example figure, shows A35G. The breather pump is installed on the gas spring for the front.

1. Nipple 936442 to connect to fuel channel from the cylinder head
2. Connector for battery cable
3. Priming pump
4. Switch
5. Inlet connection from fuel channel
6. Outlet connection to tank

[T1] The pump is marked with inlet and outlet for fuel

3. Connect a fuel line between 936442 Testing nipple and the inlet connection on the breather pump.
   NOTE!
   It is important to obtain a completely tight seal at the connections so that the fuel can be sucked up from the tank

and through the whole engine's fuel system.

4. For older machines the pump can be connected the fuel system's return line that goes to the tank. For diagram, see Fuel system, description
   NOTE!
   It is important to obtain a completely tight seal at the connections so that the fuel can be sucked up from the tank and through the whole engine's fuel system.

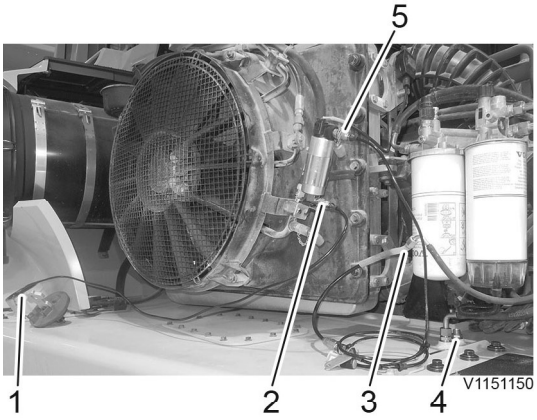

Figure 5
Example figure

1. Fill pipe, fuel tank
2. Outlet connection from pump to fuel tank
3. Inlet fuel line to pump and fuel system's return hose, connected with suitable rubber hose
4. Connection for fuel system's return hose to tank
5. Inlet connection to pump

5. Connect a fuel line to the outlet connection on the breather pump and place the other end in the fill pipe on the tank.

6. Connect the battery cables to the battery on the machine. Red clamp to the positive (plus) connection and black clamp to the negative (minus) connection. Plug in the connector for the breather pump.

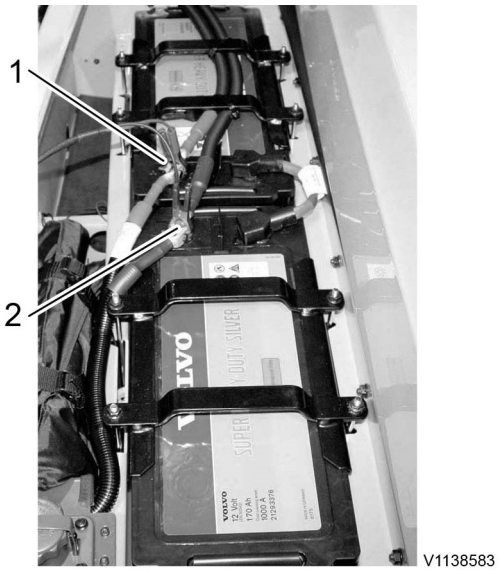

Figure 6
Example figure, shows A35G

1. Positive connection (red)
2. Negative connection (black)

7. Start the breather pump with the switch and let the pump run until fuel flows with a constant and even jet from the fuel line, which takes approx. 5 minutes.
   NOTE!
   For faster air bleeding, the breather pump can be supplemented with the hand pump at start.

8. Turn off the breather pump with the switch and remove the equipment. Reinstall the tank cap and the breather nipple.

9. Start the engine and let it idle for a few minutes before it is loaded.

VOLVO
Construction Equipment

Service Information

Document Title:	Function Group:	Information Type:	Date:
88830508 User instruction	**080**	**Service Information**	**09-02-2024**
Profile: **A35F Volvo SN 320001-**			

88830508 User instruction

Showing Selected Profile

Valid for serial numbers			
Model	**Production site**	**Serial number start**	**Serial number stop**
A35F Volvo SN 320001-			

Hydraulic safety jack 25 tonnes

Figure 1

NOTICE

Read the user instruction before use or in connection with initial use, pay special attention to the publication's warning texts.

General instructions

– These User Instructions are a direct guideline to using and maintaining the current lifting device in the right way.
– The User Instructions must be read carefully by affected personnel before the lifting device is used.
The user instructions must always be available to those who maintain or use the lifting device.

In addition, it is also important to:
- Save these user instructions and other applicable documents during the whole service life of the lifting equipment
- Pass these user instructions on to other owners or users of the lifting equipment.
- Introduce any appendices, supplements, or changes made by the manufacturer into the user instructions.

Pay close attention to the warnings mentioned in the user instructions and that are found on the lifting device. Serious injuries and equipment damage can occur if you fail to note and follow this information.

Responsibility

These user instructions describe the authorized method for using the lifting device.
All service must be performed by personnel with suitable technical training or corresponding professional experience and in consultation with the manufacturer.
The manufacturer is not liable for any injuries or equipment damage if the User Instructions are not followed.

Marking

The lifting device has a CE-marking, which means that it is designed, manufactured, and described according to EC:s Machine Directive 2006/42/EC.
Machine plates or any other markings may not be removed or made illegible.

Figure 2

BM Lindahl AB Älmedal 6 SE-364 33 Åseda
Hydraulic safety jack x2 Type/No.: 25 tonnes x2 Year: 2016 Max. load 50 tonnes with two jacks

Manufacturer

BM Lindahl AB
Älmedal 6
SE-364 33 Åseda

When modifying

The CE marking does not cover any modifications or other parts that are added to the lifting device without permission from the manufacturer.
If such modifications or parts change the function of the lifting device the CE marking does not apply.
In the event of modification, it is important that these user instructions are immediately supplemented/adjusted with the necessary illustrations, photographs and text.

Intended use of jacks

The jacks are designed to be used for lifting articulated haulers of a maximum weight of 50 tonnes, in indoor industrial environments at normal temperatures.
Flooring for use must be flat, void of holes and have the strength class to bear the weight.
The jacks are intended for use by specially appointed and trained personnel. They are not intended for use by unauthorized personnel or under-age personnel.

General

To meet the requirements for the intended use, the user must comply with all operating and maintenance instructions prescribed by the manufacturer.

Technical data safety jack

Type designation: Safety jack 25 tonnes.
Max. load: 25 t, 25000 kg.
Dead weight: 150 kg.
Test factor for statistics test: 1,2.
Lift in rear axle of articulated hauler A60H, with a full load in the load body, with a total weight of approx. 90 tonnes, of which 2/3 on the rear axle.
See also Validation- Inspection report lifting equipment

Safety information, usage restrictions

The lifting device may only be used for the intended purpose. All other use is forbidden.

Machine description

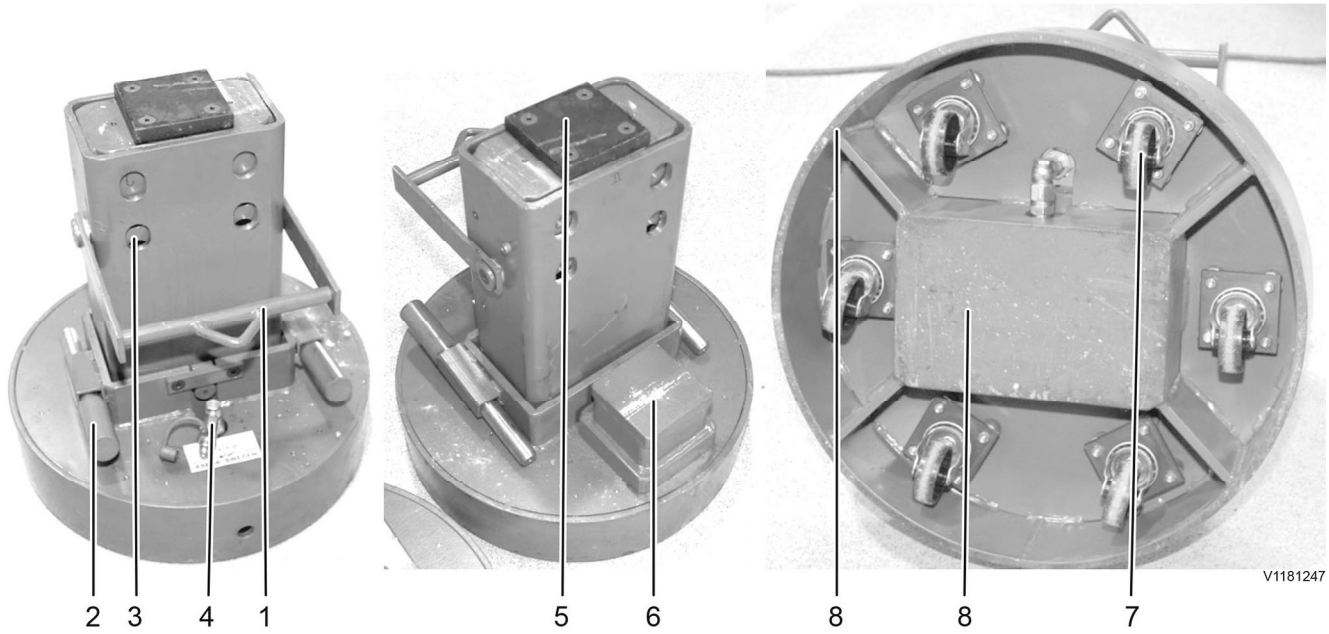

Figure 3

1. Handle for manual handling and when lifting the jack.
2. Pin (x2) for securing lifted load.
3. Hole for engaging pins to secure raised loads.
4. Quick connection nipple for connection of hydraulic hose.
5. Inner stiletto beam with top plate, for guiding and securing the top cover.
6. Top cover, connected before lift. Lifting height increases by about 100 mm.
7. Sprung caster (x6) for easy manual movement of the jack.
8. Support surfaces - during loading the casters spring in and the jack rests on its support surfaces.

Hydraulic connection

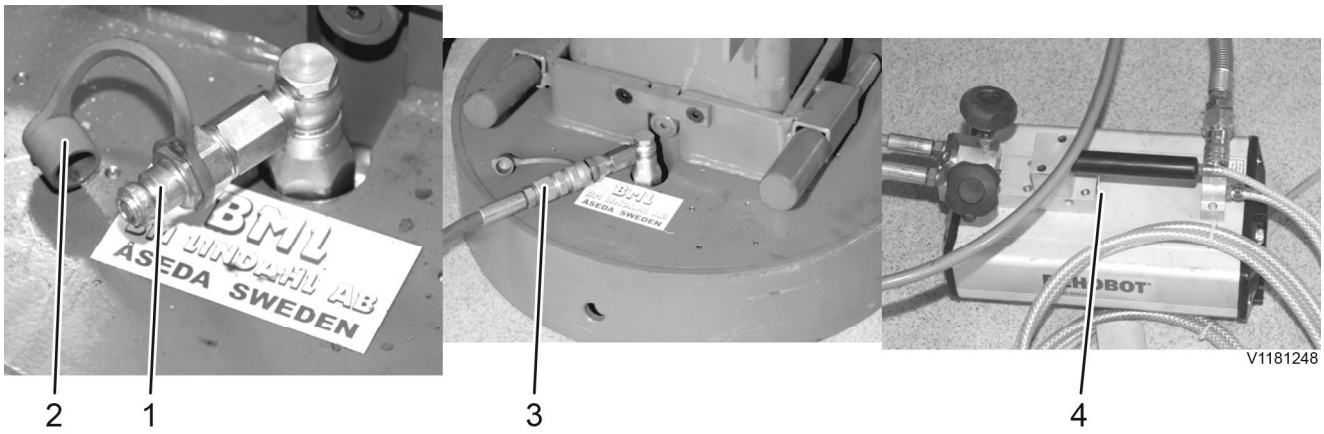

Figure 4

1. Nipple for connection of hydraulic hose.
2. Protective cover for nipple.
3. Hydraulic hose with quick-coupling connected to jack.

4. Hydraulic pump for lifting and lowering load.

Hydraulic connection/installation

CAUTION

Hydraulic connection via quick-coupling. When hydraulic energy is pressurized, sudden movements can occur, check that no-one is in any danger zone during pressurization.

NOTICE

The manufacturer's/supplier's instructions on safety and handling must be followed when handling hydraulic oils.
Always use the recommended hydraulic oils in the system, always perform filter replacements and oil changes according to the manufacturer's/supplier's instructions.

Requirements on flooring during use

The building's flooring for the use of jacks must be smooth, void of holes and be of such quality that it can carry the jacks with a total load of 25 tonnes.

Before lifting

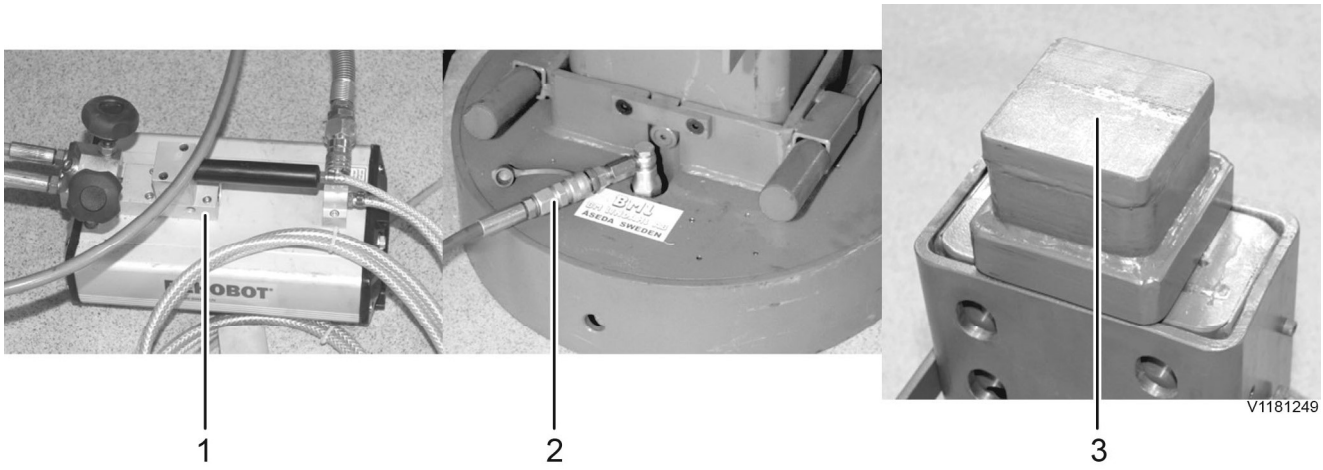

Figure 5

1. Prepare and place the hydraulic pump outside the danger zone of the lift.
2. Connect the hydraulic hose to the respective jack via quick-coupling.
3. Place the top cover on the respective jack if necessary before lifting.

Lifting loads

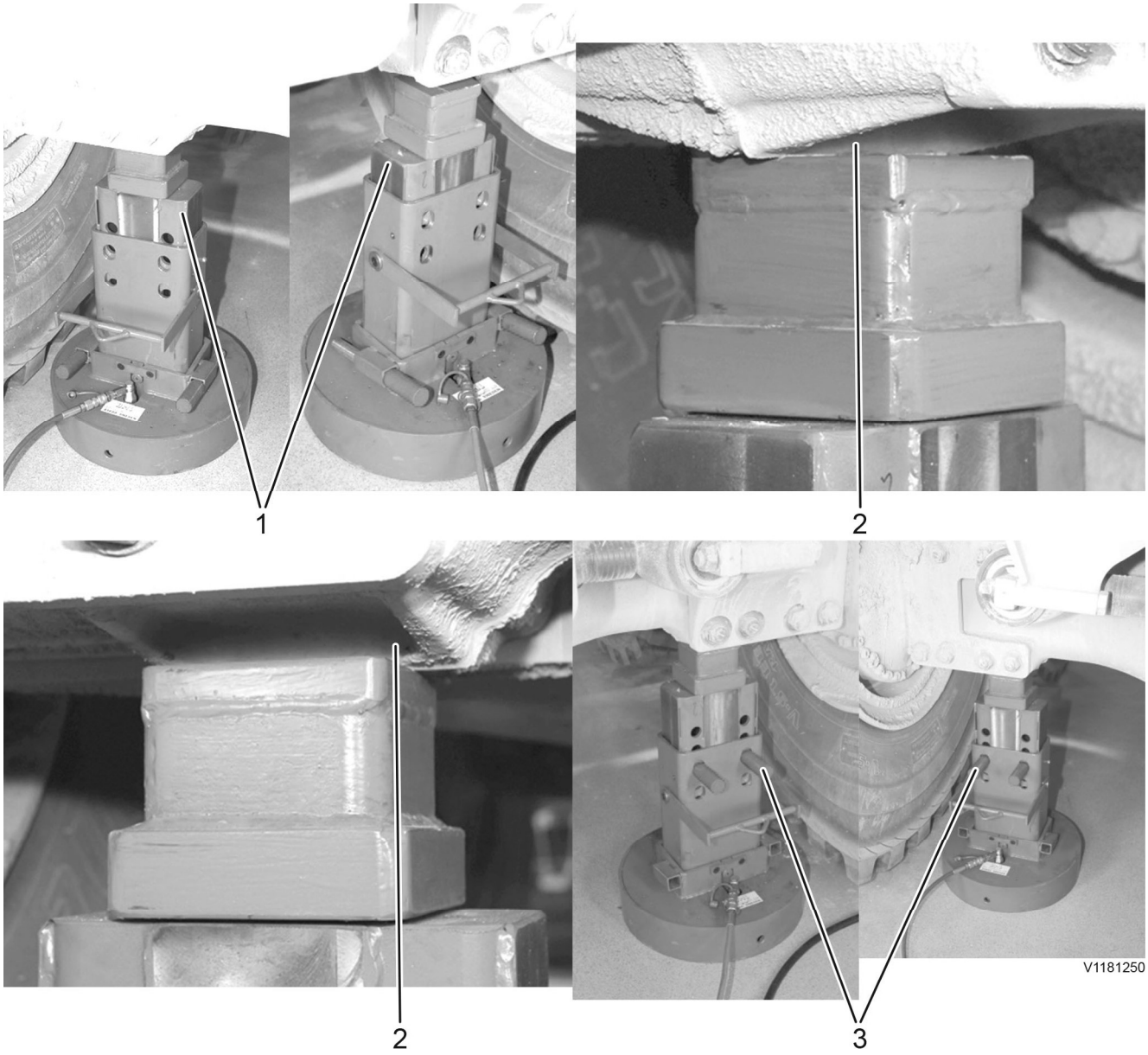

Figure 6

1. Place the jacks under the machine at the designated locations, raise the jacks until they touch the machine beams.
2. Check that the top covers are centred under the machine's beams.
3. Lift the machine to the desired height and secure the lift with pins x4. Lower the jacks so that they rest on the pins. Disconnect the hydraulic pump via the quick-couplings and perform the required work.

Lowering loads

This is the sample of the manual if you need complete manual

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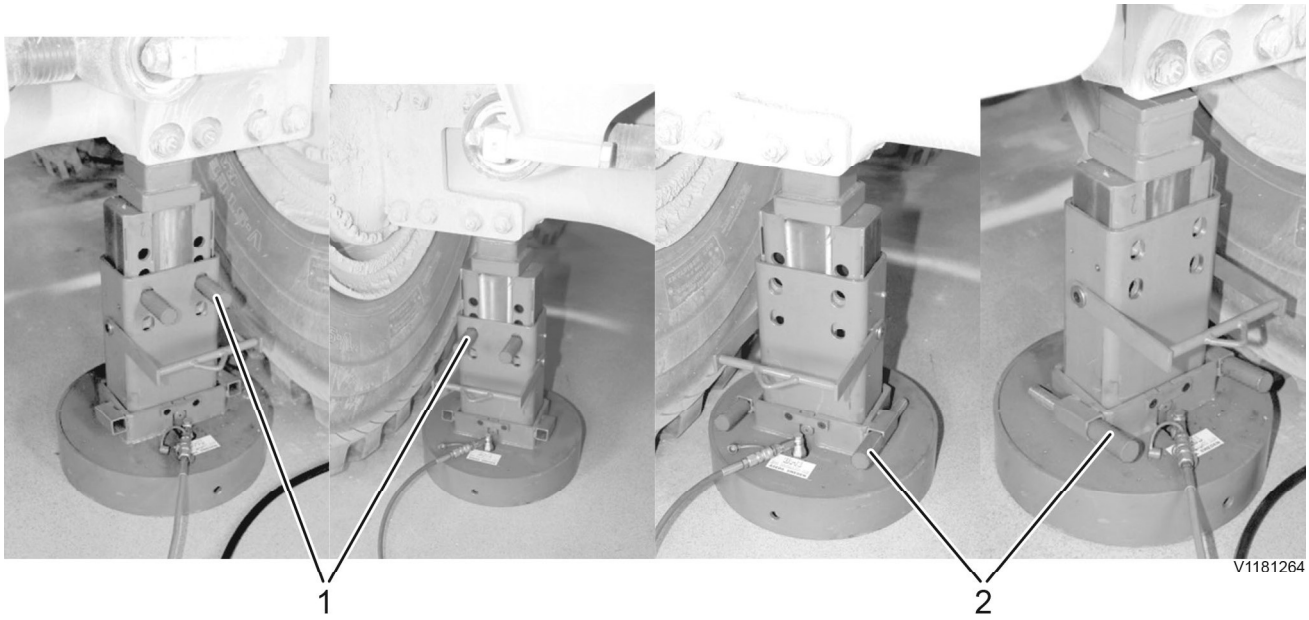

Figure 7

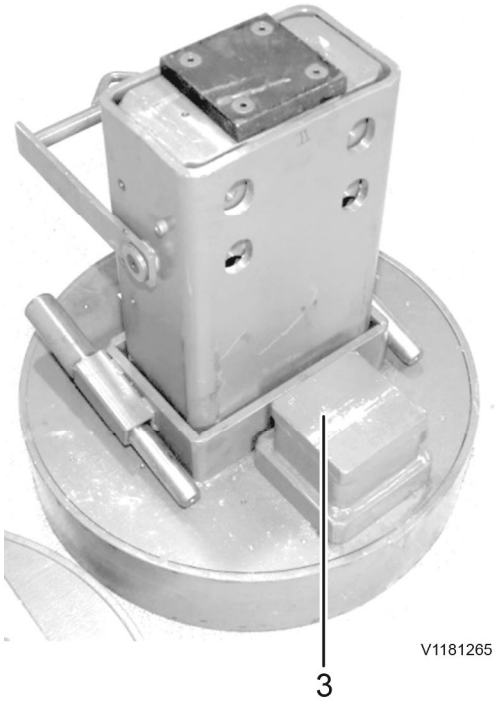

Figure 8

1. Before lowering the load, connect the hydraulic pump via the quick-coupling to the respective jack, lift carefully to relieve the load from the pins.
2. Remove the pins and place them in their storage locations, lower the load and jacks to their lower end-position, pull out the respective jack from the machine.
3. Remove the top covers and place them in their storage locations, place the jacks in their storage locations.

WARNING

Trapping risk

Never put your fingers in pin holes, in the event of unexpected movement there is a risk of trapping and injuring your fingers.

NOTICE

Storing pins
The pins must always be stored in their holders so that they are constantly available for use to secure the load.

Conditions of use
The jacks may not be used on inclined surfaces, only use on flat surfaces/flooring.
The surface/flooring must be strong enough to support the jacks with the applied weight.

Conditions and preparatory measures

Lifting equipment with damaged parts must not be used.
Warning decals as well as CE markings on lifting equipment must be clearly visible.
If any part with a warning decal or CE marking is replaced, new warning decals and CE marking must be attached in the corresponding location.
Damaged parts and CE markings must be replaced immediately,

Ongoing maintenance and inspection

Lifting equipment must be continuously inspected.
The following points must be checked at the following intervals:

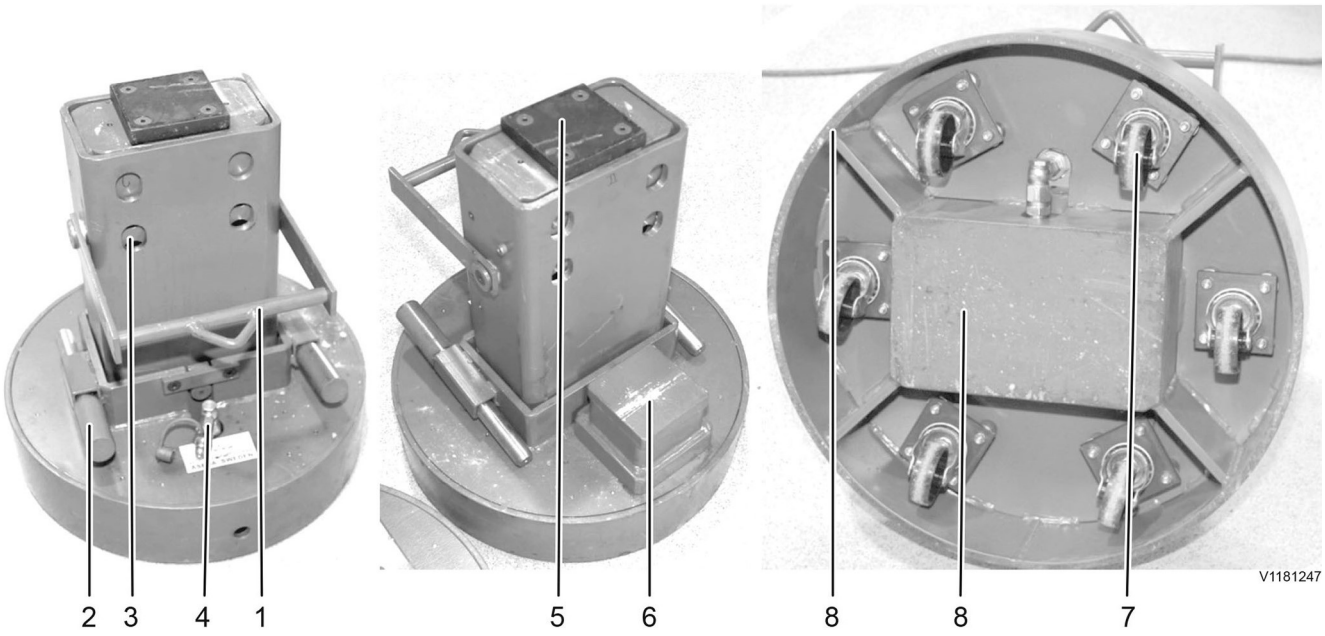

Figure 9

No.	Part	Check/inspection	Interval
1	Handle	Inspection not necessary	Replaced as necessary
2	Pin x2	Visual check of condition and for damage	Before each lift
3	Hole x4	Visual check of condition and for damage	Before each lift
4	Quick coupler	Check that the coupling is free from dirt, gravel etc. Wipe dirty coupling with fabric cloth.	Before each connection
5	Inner stiletto beam	Lubricate with grease	1 x annually or as necessary
6	Top cover	Visual check of condition and	Before each lift

		for damage	
7	Casters x6	Inspection not necessary	Replaced as necessary
8	Support surfaces	Visual check of condition and for damage	1 x per month

Declaration of Conformity

EG-FÖRSÄKRAN OM MASKINENS ÖVERENSSTÄMMELSE

Original

Direktiv 2006/42/EG, Bilaga II 1A

Tillverkare (och i förekommande fall dennes befullmäktigade representant):

Företag: BM Lindahl AB

Adress: Älmedal 6 | SE-364 33 Åseda

Försäkrar att:

Maskintyp: 25 tons domkraft

Maskinnr: 88830508

Överensstämmer med maskindirektivet 2006/42/EG.

Överensstämmer även med följande direktiv:

Följande harmoniserade standarder har tillämpats:

Följande andra standarder och specifikationer har tillämpats:

Behörig att sammanställa teknisk dokumentation:

Namn: Kalle Lindahl | 0474-10510 | 0708-754914 | kalle@bmlindahl.se

Adress: Älmedal 6 | SE-364 33 Åseda

Signatur:

Ort/Datum:

Namn:

Namnförtydligande: Kalle Lindahl | 0474-10510 | 0708-754914 | kalle@bmlindahl.se

Befattning: VD

Figure 10

Document Title: **Basic check, transmission**	Function Group: **090**	Information Type: **Service Information**	Date: **09-02-2024**
Profile: **A35F Volvo SN 320001-**			

Basic check, transmission

Showing Selected Profile

Valid for serial numbers			
Model	**Production site**	**Serial number start**	**Serial number stop**
A35F Volvo SN 320001-			

Purpose of the basic check

The purpose of the basic check is to provide fast and accurate information about the general condition of the transmission.

The normal work procedure is to perform the basic check following collection of basic data, reading out error codes and checking parameters, if it has not been possible to determine the cause of the malfunction up to that point.

The basic check's tests should be run and evaluated according to instructions in Tech Tool.

Tests included in the basic check

The first step in the basic check is to operate the machine, to test-run the vehicle.

The basic check is then divided into the following tests, which should be performed in the order that they are listed, after **reading out error codes, checking parameters** and **operating (test-running)**the machine.

Tests:

1. **40012-3 Gear selector position sensor, test**
   The test is used to check that the selected gear position is correctly read in the control unit.
2. **40026-3 PWM-valves clutches and brakes, test**
   The test is used to check the PWM valves in the transmission control system.
3. **42002-3 PWM valve main oil pressure gearbox, test**
   The test is used to check the PWM valve that regulates main oil pressure to the transmission.

VOLVO
Construction Equipment

Service Information

Document Title: **Basic checks**	Function Group: **090**	Information Type: **Service Information**	Date: **09-02-2024**
Profile: **A35F Volvo SN 320001-**			

Basic checks

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Valid for serial numbers			
Model	**Production site**	**Serial number start**	**Serial number stop**
A35F Volvo SN 320001-			

The normal work order (see also Troubleshooting strategy) for troubleshooting is:

1. collection of basic data
2. Error code check and symptom troubleshooting
3. Tech Tool tests
4. Basic checks
5. Contact local product support

The basic checks are done before local product support is contacted, if the cause of the malfunction has not been deteremined before that.

The basic check(s) to be performed is determined by the information obtained when basic data was collected, see Collection of basic data.

Basic checks are done on each system. The purpose of the basic check is to give information about the condition of the specific system.

Each basic check is divided into a number of checks to be performed in order.

Basic checks:

- Engine, basic check
- Electrical system, basic check
- Power transmission, basic check
- Brake system, basic check
- Parking brake, basic check
- Steering and hydraulics, basic check

Document Title: **Collection of basic data**	Function Group: **090**	Information Type: **Service Information**	Date: **09-02-2024**
Profile: **A35F Volvo SN 320001-**			

Collection of basic data

Showing Selected Profile

Valid for serial numbers			
Model	**Production site**	**Serial number start**	**Serial number stop**
A35F Volvo SN 320001-			

The first step in all troubleshooting work is collection of basic data to quickly get a good picture of how the problem manifests itself.

In addition to information about machine and customer, it is important to get as much information as possible about events in connection with the occurrence of the malfunction.

The operator can often provide valuable information on the prevailing circumstances when the malfunction occurred since the operator is almost always the first to detect a problem. Often, the malfunction or perceived problems are difficult to recreate if the circumstances are not exactly the same. In these instances in particular, the information from the operator is vital to being able to make correct assessments when continuing troubleshooting.

Use the questions below to interview the operator. Note the responses to the questions and save them together with the work order.

General data

Note relevant general data such as:

- Customer information
- Dealer information
- The operator
- Machine specifications:
  - Machine model and serial number (PIN – Product Identification Number)
  - Machine hours

Problem description

- Describe the malfunction.
- Have any error codes been generated?
- Have any updates for software or hardware been done recently on the machine?
- Have any actions, e.g., calibration or repairs, been done to try to solve the problem?
- When did the malfunction occur?
- How was the malfunction detected and what happened just before it was noticed?
- Were there any other malfunctions at the same time or just before the problem occurred?
- Does the malfunction reappear?
- How often does the malfunction occur?
- How long does the malfunction last when it occurs?
- Under what operating conditions does the problem appear? Are there external conditions that have an impact?
- Does the operator have an idea of what may be the probable cause of the malfunction?
- Does the problem still exist?

Engine data

- Is the engine difficult to start?
- Is there abnormal smoke development?

- Are there abnormal engine sounds?
- Have changes in fuel consumption, oil consumption or power been confirmed?
- What type of fuel is used?
- Are additives used in the fuel? If yes, which ones?
- What repairs or other work has been performed on the engine?
- Other information?

Power transmission, data

- What type of oil is used?
- Are additives used in the oil? If yes, which ones?
- When was the last oil change?
- Are the tires of the same dimension?
- What repairs or other work has been performed on the transmission?
- Other information?

Brake system, data

- What type of oil is used?
- Are additives used in the oil? If yes, which ones?
- When was the last oil change?
- When was the last oil filter change?
- Is there abnormal heat generation from one or several wheels?
- What repairs or other work has been performed on the brake system?
- Other information?

Steering and hydraulics, data

- What type of oil is used?
- Are additives used in the oil? If yes, which ones?
- When was the last oil change?
- When was the last oil filter change?
- What repairs or other work has been performed on the steering system?
- Other information?

Document Title: **Complete machine, descriptions**	Function Group: **000**	Information Type: **Service Information**	Date: **09-02-2024**
Profile: **A35F Volvo SN 320001-**			

Complete machine, descriptions

Showing Selected Profile

Valid for serial numbers			
Model	**Production site**	**Serial number start**	**Serial number stop**
A35F Volvo SN 320001-			

The machine consists of two main sections, the tractor unit and the load unit. The two units are joined by the frame joint, which allows movement about a vertical bearing for steering. The frame joint also allows twisting of the units in relation to each other along a horizontal axis.

Engine

The machine is equipped with a straight six cylinder, four-stroke, turbocharged diesel engine with direct injection and intercooler (charge-air cooler). The engine has an overhead camshaft and one unit injector per cylinder. The cylinder head is common for all cylinders and has four valves per cylinder.

D13J, D16J (machine model G)

The engines meet the emission requirements for US Tier 4 Final and California Tier 4 Final as well as EU's Stage IV. The engines require fuel with low sulphur content.
The engines feature external, cooled exhaust recirculation (EGR - Exhaust Gas Recirculation) and an exhaust aftertreatment system (EATS - Exhaust AfterTreatment System).
EATS consists of a diesel particulate filter (DPF), catalysts, and injection of AdBlue®/DEF. The system has a built-in cleaning function, regeneration, which uses increased temperature to clean the EATS.
EATS is monitored and controlled by the aftertreatment control module (ACM).

D13F, D16F (machine model F)

The engines meet emission requirements for Stage II. The engines can handle fuels with higher sulphur content than engines D13J and D16.

Electrical system

Machine model G has eight control units (ECU).
Machine model F has six control units (ECU).

- **V–ECU**
  Located on the left side in the cab in front of the circuit board. The V-ECU is the upper of the two ECUs.
  Handles brakes, gearshifting, steering, and cooling fan control on the machine.
- **V2-ECU**
  Located on the left side in the cab in front of the circuit board. The V2-ECU is the lower of the two ECUs.
  Handles dumping system, brake cooling system, ATC, and differential locks.
  Handles Full Suspension, when applicable.
- **W-ECU**
  Located on the left side in the cab over the circuit board.
  Handles CareTrack. (Telematic system for remote monitoring of information from the machine).
- **HMIM**
  Located on the left side in the cab over the circuit board.
  Handles information for the operator via instrumentation, information display unit, warning lights, and instruments.
- **ECC**
  Located in the cab on the right side under the gear selector.
  Handles the climate control system.

Applies to machine model G:

- **ECM (E-ECU)**
  Located on the left side of the engine.
  Handles the engine.
- **ACM**
  Located under the engine hood on the leading edge of the right front fender.
  Handles the exhaust aftertreatment system.
- **Engine Gateway**
  Located on the front cab wall under the left instrument panel.
  Handles communication between the engine system and the machine system.

Applies to machine model F:

- **E–ECU**
  Located on the left side of the engine.
  Handles the engine.

Power transmission

The **transmission** is fully automatic and of the planetary gear type. It has a torque converter with free-wheel stator and automatic direct clutch (Lock-up) in all gears. The machine has nine forward gears and three reverse gears.

The **dropbox** has a differential of the dog-clutch type which distributes torque equally between the front axle and rear axles, reducing tire and road wear, as well as fuel consumption. The longitudinal differential features a lock function.

ATC, Automatic Traction Control, automatically controls engagement and disengagement of the longitudinal differential lock and 6–wheel drive as needed.

The **drive axles** are equipped with a differential of dog-clutch type and planetary gear hub reductions. All drive axles have a differential lock.

Brake system

Engine brake

Depending on setting of switches, an engine brake is available to reduce wear of the brakes.

Service brake

The machine is equipped with 2–circuit, fully hydraulically controlled, and self-adjusting wet brakes, one brake circuit for the tractor unit and one for the load unit. The brake units consist of fully sealed, oil-cooled disc brakes with external cooling. The brake system and hydraulic system have a common oil tank. The brake cooling system has a separate oil tank.

Parking brake

The parking brake is of the self-adjusting spring brake type and acts on the propeller shaft for the two front axles.
The longitudinal differential lock in the dropbox is engaged at the same time as the parking brake is applied, which means that the propeller shafts locks the front axle and the front bogie axle. The parking brake has a separate compressed air circuit for brake release.

Steering system

The steering system is self-compensating, hydromechanical with secondary steering function. A ground-dependent pump on the dropbox means that the steering works even if the engine stops.

Full Suspension (FS-system)

Machines with the designation FS feature **F**ull **S**uspension, which is an all-hydraulic suspension system. Machines with Full Suspension do not have standard bogie beams, rubber springs, and shock absorbers. Instead the machine's frame and wheel axles are connected using six double-acting hydraulic cylinders. Each wheel has a position sensor, enabling adaptation of the suspension to ground conditions and load, which increases productivity and operator comfort.

Cab

The cab features an automatically controlled heating and ventilation system with defroster system for the windows. Air conditioning is available as an option. The cab has three emergency exits, the door and the front side windows on both right and left side. These are broken with the hammer in the cab if evacuation is necessary that way.

FOPS and ROPS

The cab is approved as a protective cab according to FOPS and ROPS standards, see page CE-marking, EMC-directive. FOPS is an abbreviation of Falling Objects Protective Structure (roof protection) and ROPS is an an abbreviation of Roll Over Protective Structure (roll over protection).

If any part of the cab's protective design features is affected by plastic deformation or cracks, the cab must be replaced immediately.

Never make any unauthorized changes to the cab, e.g., lowering the roof height, drilling, welding on of brackets for fire

extinguishers, radio antenna, or other equipment without first discussing the modifications, via a dealer, with personnel at Volvo CE's design and engineering department. They will decide if the modification can lead to the approval becoming invalid.

Hydraulics

The hydraulic system consists of six hydraulic pumps of piston type, with continuous variable displacement. There are three pumps for the steering and dumping system, two for fan drive, and one ground-dependent hydraulic pump.

The two pumps for the fan drive are one for the intercooler's cooling fan, and one for the radiator's cooling fan. The radiator's cooling fan is also used for charging brake pressure and driving the brake cooling pump/secondary coolant pump. The ground-dependent pump is mounted on the dropbox and delivers oil, via a non-return valve, to the steering system when the machine is rolling forwards.

Machines with FS (Full Suspension) have an extra hydraulic pump for the FS-system.

Dumping system

The machine features an electric dump lever which sends an electric signal to two electro-hydraulic valves. These send a hydraulic signal to the dumping valve which controls the load body's movement. The machine has damping at the upper and lower load body positions.

VOLVO
Construction Equipment

Service Information

Document Title: **Information and warning decals**	Function Group: **000**	Information Type: **Service Information**	Date: **09-02-2024**
Profile: **A35F Volvo SN 320001-**			

Information and warning decals

Showing Selected Profile

Valid for serial numbers			
Model	**Production site**	**Serial number start**	**Serial number stop**
A35F Volvo SN 320001-			

The operator should know, follow, and pay attention to warnings and information stated on decals and plates. All plates/decals are not installed on all machines since they are dependent on market and machine.

The decals must be kept free from dirt, so that they are legible and easy to understand. Decals/plates that have been lost, damaged, painted over, or no longer are legible for other reasons, must be replaced immediately.

The part number (order number) of the each plate/decal can be found in the Parts Catalogue.

NOTE!
The text "WARNING" is stated on warning decals in North America.

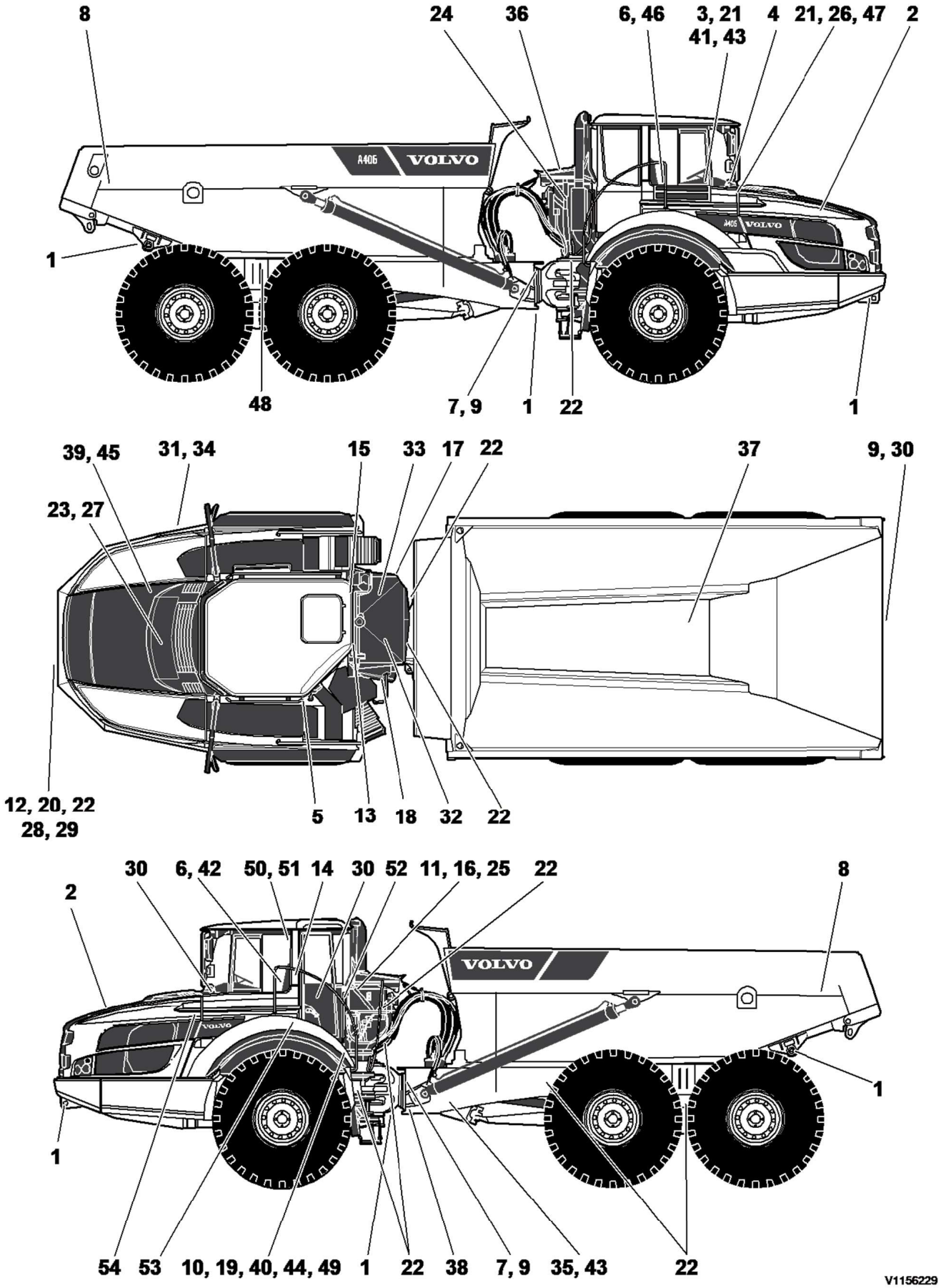
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Figure 1

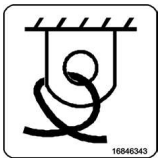

Figure 2

1. Attaching point for lashing
Spare part number: 16846343

Figure 3

2. Avoid aiming water jets at sound absorbents
Spare part number: 13935005

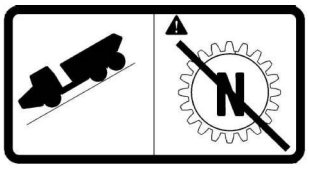

Figure 4

3. WARNING! Do not operate downhill with the gear selector in neutral. Only change gear with the accelerator released.
Spare part number USA: 13935051
Spare part number, all other markets: 15064504

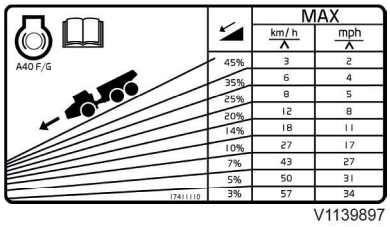

Figure 5

4. Retarder diagram
Spare part number A35F and A35G: 17411102
Spare part number A40F and A40G: 17411110

Figure 6

5. Oil fill point transmission
Spare part number: 11197518

Figure 7

6. Emergency exit
Spare part number: 11116814

Figure 8

7. WARNING! Risk of crushing – articulated frame steering
Spare part number USA: 13935000
Spare part number, all other markets: 15048526

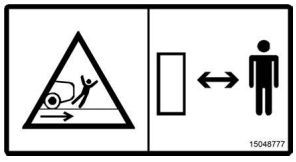

Figure 9

8. WARNING! Do not stand within the work area of a reversing machine
Spare part number USA: 15180541
Spare part number, all other markets: 15048777

Figure 10

9. WARNING! Do not lean in under raised load body unless it is blocked
Spare part number USA: 13935019
Spare part number, all other markets: 15048231

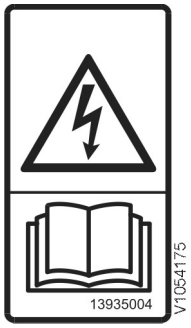

Figure 11

NOTE! Only USA-market.
10. WARNING! Before connecting start cables, read the Operator's Manual.
Spare part number: 13935004

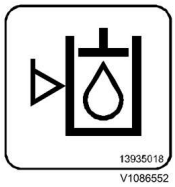

Figure 12

11. Hydraulic oil
Spare part number: 13935018

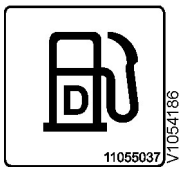

Figure 13

12. Fuel
Spare part number: 11055037

Figure 14

13. Sound pressure level (LpA) in cab
Spare part number 70 dB: 11180148
Spare part number 72 dB: 11180150
Spare part number 74 dB: 11180152

Figure 15

14. Sound power level (LwA) outside machine
Spare part number 112 dB: 11180167
Spare part number 110 dB (optional equipment): 11180165

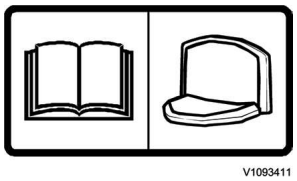

Figure 16

15. Compartment for Operator's Manual
Spare part number: 15164402

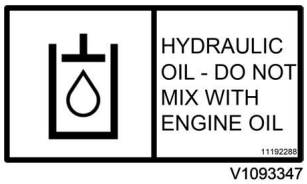

Figure 17

NOTE! Only USA-market.
16. Hydraulic oil. Do not mix with engine oil
Spare part number: 11192288

This is the sample of the manual if you need complete manual

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